

(19)



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(11)

EP 0 909 001 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
05.04.2000 Bulletin 2000/14

(51) Int. Cl.⁷: H02J 7/00, G01R 31/36

(43) Date of publication A2:
14.04.1999 Bulletin 1999/15

(21) Application number: 98119293.3

(22) Date of filing: 13.10.1998

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 13.10.1997 JP 27878997
08.12.1997 JP 33689597

(71) Applicants:

- TOYOTA JIDOSHA KABUSHIKI KAISHA
Aichi-ken 471-8571 (JP)
- MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
Kadoma-shi, Osaka 571-8501 (JP)
- Denso Corporation
Kariya-shi, Aichi-ken, 448-0029 (JP)

(72) Inventors:

- Kikuchi, Yoshiaki
Toyota-shi, Aichi-ken 471-8571 (JP)

• Sekimori, Toshiyuki

Toyota-shi, Aichi-ken 471-8571 (JP)

• Asakawa, Fumihiko

Toyota-shi, Aichi-ken 471-8571 (JP)

• Ukita, Susumu

Toyota-shi, Aichi-ken 471-8571 (JP)

• Shoji, Yoshimi

Toyota-shi, Aichi-ken 471-8571 (JP)

• Nakanishi, Toshiaki

Toyohashi-shi, Aichi-ken 440-0858 (JP)

• Kimura, Tadao

Kobe-shi, Hyogo-ken, 655-0873 (JP)

• Katoh, Tomoya

Kariya-shi, Aichi-ken 448-0029 (JP)

(74) Representative:

Winter, Brandl & Partner

Patent- und Rechtsanwaltskanzlei

Alois-Steinecker-Strasse 22

85354 Freising (DE)

(54) Method and device for detecting a state of charge of a battery assembly, and battery assembly charge and discharge control device

(57) Variation of the charged amount among battery blocks composing a battery assembly is detected. By subtracting the detected value of the variation from the width between the upper limit value and the lower limit value of the charged amount, the movable range (A~B) of the charged amount is found. The position of the present charged amount (C, star mark) is detected as the state of charge. For example, it is arranged that both ends of the movable range are 0% and 100%, and that the movable range is the full scale. Then, the position of the charged amount on this scale is specified by the ratio %. The detection of the state of charge in which the variation in charged amount and the change of the movable range are considered, is performed, and on the basis of this state of charge, a preferable charge and discharge control is performed.

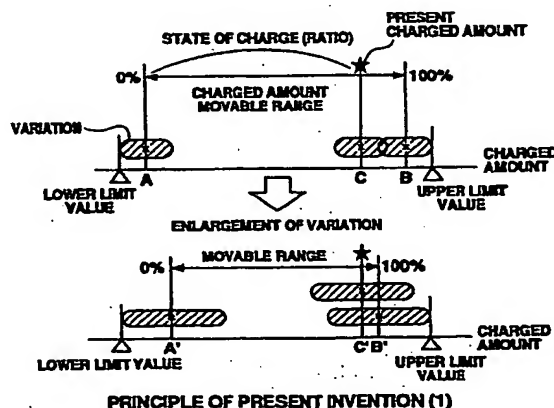


Fig. 3



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EUROPEAN SEARCH REPORT

Application Number
EP 98 11 9293

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	& EP 0 926 799 A (MATSUSHITA) * column 2, line 13 - column 3, line 26; figures 4-6 *		
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 February 2000	Examiner Iwansson, K
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

EPO FORM 1523 (3.92) (P04001)

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EP 98 11 9293

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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